

Abstract of the Disclosure

An imaging method is for a multi-slice spiral CT scan. An object to be examined is scanned with reference to its absorption behavior by a rotating ray bundle moving in the direction of the axis of rotation, and the measured absorption data are collected. In order to reconstruct volumetric images from the measured data, the latter are filtered and the filtered data are subsequently back-projected in three dimensions in order to generate at least one volumetric image of the object to be examined. The volumetric image represent absorption values, obtained from the data, of the voxels, belonging to the layer of the object to be examined, for the radiation of the ray bundle. A CT unit is for carrying out this method. In the method, the filtering is formed by use of multiple application of a ramp filter R_i and a masking operation M to a projection image in a different sequence. The CT unit includes, for filtering purposes, multiple application of a ramp filter and a masking operation to a projection image in a different sequence.